

## Product Information Sheet

An MSDS is not required. This information sheet is provided as a service to our customers. An MSDS for the active chemical inside the listed products is available upon request. **For US Customers:** The products referenced herein are exempt articles and are not subject to the OSHA Hazard Communications Standard Requirement 29 CFR 1910.1200. **For EU Customers:** The products referenced herein are not submitted to 91-155 EEC, as they are considered as components and not as a chemical substance. **Notice:** The information and recommendations herein contained are made in good faith and are believed to be accurate at the date of preparation. Maxwell Technologies Inc. makes no warranty expressed or implied.

### Product Information

#### Manufacturer

Maxwell Technologies Inc.  
9244 Balboa Avenue San Diego, CA 92123  
Phone: +1 858-503-3300  
Fax: +1 858-503-3333

**Product:** Ultracapacitors

**Models:** All BCAP and BMOD models, *with the exception of* all configurations and versions of PC5, PC10, PC5-5, BCAP0005 and BCAP0010

#### EMERGENCY PHONE

##### North America

Chemtrec Hazmat Communication Center 1 800 424 9300  
+ 1 703 527 3887

**Date:** June 19, 2009

##### Europe

Swiss Toxicological Information Centre +41 (0)44 251 5151

### Product Components

**Important Safety Note:** Ultracapacitors should not be opened, disassembled, crushed, burned, or exposed to high temperatures (>85°C, 185°F), and should be operated only within their defined operating specifications. Failure to adhere to operating specifications could result in poor device performance or unsafe operating conditions. Exposure to the components contained within the ultracapacitor could be harmful under certain circumstances. In case of exposure to ultracapacitor contents, wash affected area for at least 15 minutes with generous amounts of water and seek medical attention. Fires involving these types of ultracapacitors should be extinguished with CO<sub>2</sub>, dry chemical, alcohol foam, or all purpose AFFF extinguishing media. Water may be ineffective but should be used to cool fire-exposed containers, structures and to protect personnel.

BOOSTCAP® ultracapacitors are composed of the following major components:





Electrodes: Activated Carbon  
Separator: Cellulose  
Electrolyte: Quaternary salt (tetraethylammonium tetrafluoroborate)  
Organic solvent (acetonitrile)  
Other: Aluminum, steel

### Disposal

BOOSTCAP ultracapacitors are neither specifically listed nor exempted from government hazardous waste regulations. The only material of possible concern is the organic solvent, which when discarded or disposed of, is a hazardous waste according to Federal regulations (40 CFR 261). It is listed as Hazardous Waste Number U003, so listed due to its toxicity and ignitability. Disposal can occur only in properly permitted facilities. Check state and local regulations for any additional requirements, as these may be more restrictive than federal laws and regulations.

### Transportation

BOOSTCAP ultracapacitor products contain acetonitrile, which is identified as UN1648, acetonitrile, Class 3 (Flammable). Ultracapacitors as articles are not specifically listed nor exempted from dangerous goods transportation regulations. Maxwell Technologies has elected to handle its large cell ultracapacitor product line as UN1648. As such, transportation of BOOSTCAP large cell ultracapacitors should conform to regulations applicable to UN1648, including labeling, packaging, and provisions for excepted and limited quantities. Maxwell Technologies ships all large cell ultracapacitor products in accordance with these regulations.

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